650 MHz





Intel[®] Core[™] i5-3230M Processor

raphics Base Frequency ?

3M Cache, up to 3.20 GHz rPGA

Add to Compare

Specifications

Essentials

Performance

Supplemental Information

Memory Specifications

Processor Graphics

Expansion Options

Package Specifications

Advanced Technologies

Security & Reliability

Ordering and Compliance

Product Images

Compatible Products

Downloads and Software

Essentials	Export specification
Product Collection	Legacy Intel® Core™ Processors
Code Name	Products formerly Ivy Bridge
Vertical Segment	Mobile
Processor Number	i5-3230M
Status	Launched
Launch Date 😨	Q1'13
Lithography ?	22 nm
Recommended Customer Price (?)	
Performance	
# of Cores ?	2
# of Threads 💿	4
Processor Base Frequency ?	2.60 GHz
Max Turbo Frequency 🕐	3.20 GHz
Cache ?	3 MB SmartCache
Bus Speed ?	5 GT/s DMI
TDP ?	35 W
Supplemental Information	
Embedded Options Available ?	No
Datasheet	View now
Memory Specifications	
Max Memory Size (dependent on memory type) 🔞	32 GB
Memory Types ?	DDR3/L/-RS 1333/1600
Max # of Memory Channels ?	2
Max Memory Bandwidth ?	25.6 GB/s
ECC Memory Supported † ?	No
Processor Graphics	
Processor Graphics ‡ ?	Intel® HD Graphics 4000

Graphics Max Dynamic Frequency ?	1.10 GH
Graphics Output ?	eDP/DP/HDMI/SDVO/CR
Intel® Quick Sync Video 😨	Ye
Intel® InTru™ 3D Technology 💽	Ye
Intel® Flexible Display Interface (Intel® FDI) 👔	Ye
Intel® Clear Video HD Technology 🕝	Ye
# of Displays Supported ‡	
Device ID	0x16
Expansion Options	
PCI Express Revision ?	3.
PCI Express Configurations ‡ ?	1x16, 2x8, 1x8 2x
Max # of PCI Express Lanes ?	10
Package Specifications	
Sockets Supported 🔞	FCPGA98
Max CPU Configuration	
T _{JUNCTION} ③	105 (
Package Size	37.5mm x 37.5mm (rPGA988E
Intel® Turbo Boost Technology ‡ 🔞	2.
Intel® Turbo Boost Technology ‡ 👔	2.
Intel® vPro™ Platform Eligibility ‡ 👔	N
Intel® Hyper-Threading Technology ‡ 👔	Ye
Intel® Virtualization Technology (VT-x) ‡ 👔	Ye
Intel® Virtualization Technology for Directed I/O (VT-d)‡ 💽	N
Intel® VT-x with Extended Page Tables (EPT) ‡ 👔	Ye
Intel® 64 ‡ 💽	Ye
Instruction Set ?	64-b
Instruction Set ? Instruction Set Extensions ?	
	Intel® AV
Instruction Set Extensions ?	Intel® AV
Instruction Set Extensions ? Intel® My WiFi Technology ?	Intel® AV Ye
Instruction Set Extensions ? Intel® My WiFi Technology ? 4G WiMAX Wireless Technology ?	Intel® AV Ye Ye
Instruction Set Extensions ? Intel® My WiFi Technology ? 4G WiMAX Wireless Technology ? Idle States ?	Intel® AV. Ye Ye Ye
Instruction Set Extensions ? Intel® My WiFi Technology ? 4G WiMAX Wireless Technology ? Idle States ? Enhanced Intel SpeedStep® Technology ?	Intel® AV Ye Ye Ye N
Instruction Set Extensions ? Intel® My WiFi Technology ? 4G WiMAX Wireless Technology ? Idle States ? Enhanced Intel SpeedStep® Technology ? Intel® Demand Based Switching ?	Intel® AV. Ye Ye Ye N Ye
Instruction Set Extensions ? Intel® My WiFi Technology ? 4G WiMAX Wireless Technology ? Idle States ? Enhanced Intel SpeedStep® Technology ? Intel® Demand Based Switching ? Thermal Monitoring Technologies ?	64-b Intel® AV Ye

Intel® AES New Instructions 🕡	Yes
Secure Key ?	Yes
Intel® Trusted Execution Technology ‡ ?	No
Execute Disable Bit ‡ ?	Yes
Anti-Theft Technology ?	Yes

More support options for Intel® Core™ i5-3230M Processor (3M Cache, up to 3.20 GHz) rPGA





Downloads and Software



Support Community



Warranty and Replacement



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Refer to Datasheet for formal definitions of product properties and features.

"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability.

Some products can support AES New Instructions with a Processor Configuration update, in particular, i7-2630QM/i7-2635QM, i7-2670QM/i7-2675QM, i5-2430M/i5-2435M, i5-2410M/i5-2415M. Please contact OEM for the BIOS that includes the latest Processor configuration update.

‡ This feature may not be available on all computing systems. Please check with the system vendor to determine if your system delivers this feature, or reference the system specifications (motherboard, processor, chipset, power supply, HDD, graphics controller, memory, BIOS, drivers, virtual machine monitor-VMM, platform software, and/or operating system) for feature compatibility. Functionality, performance, and other benefits of this feature may vary depending on system configuration.

See http://www.intel.com/content/www/us/en/architecture-and-technology/hyper-threading/hyper-threading-technology.html? wapkw=hyper+threading for more information including details on which processors support Intel® HT Technology.

Max Turbo Frequency refers to the maximum single-core processor frequency that can be achieved with Intel® Turbo Boost Technology. See www.intel.com/technology/turboboost/ for more information.

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System and Maximum TDP is based on worst case scenarios. Actual TDP may be lower if not all I/Os for chipsets are used.

For benchmarking data see http://www.intel.com/performance.

Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See http://www.intel.com/content/www/us/en/processors/processor-numbers.html for details.

Processors that support 64-bit computing on Intel® architecture require an Intel 64 architecture-enabled BIOS.

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